

~~TOP SECRET~~

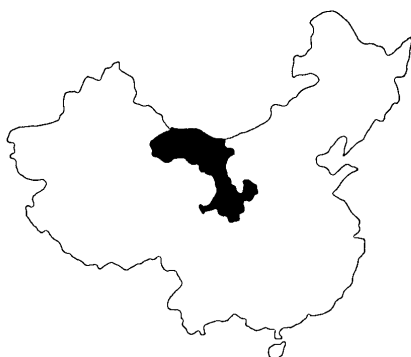
25X1



**PHOTOGRAPHIC  
INTERPRETATION  
REPORT**

**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

**KANSU PROVINCE  
CHINA**



25X1

~~TOP SECRET~~

25X1

**MARCH 1974  
COPY NO. 87  
41 PAGES  
PIR-013/74**

**Page Denied**

**TOP SECRET RUFF**

25X1

25X1

**TABLE OF CONTENTS**

	Page
I. ABSTRACT .....	1
II. INTRODUCTION .....	1
III. TARGET CATEGORIES .....	3
A. MISSILES .....	3
B. AIR .....	11
C. GROUND FORCES .....	15
D. NUCLEAR .....	23
E. ELECTRONICS .....	25
F. INDUSTRIAL .....	31
G. STORAGE .....	35
H. UNIDENTIFIED FACILITIES .....	39
I. TRANSPORTATION .....	41

**TOP SECRET RUFF**

25X1

25X1

TOP SECRET RUFF

25X1  
25X1  
25X1

## I. ABSTRACT

1. This report contains imagery-derived information on Kansu Province, China. All installations and facilities in this report are currently maintained in the installations data file of the national base of imagery derived information (NBIDI). The information is presented in textual, tabular, and graphics form. Discussed in the report are nine major installation categories: missiles, nuclear facilities, airfields, ground order-of-battle, electronics, storage facilities, industry, unidentified installations, and transportation. This report includes the latest and best imagery available through November 1973

25X1

## II. INTRODUCTION

2. Kansu Province is in north-central China in the Upper Yellow River region. It encompasses a total of 300,000 square miles, an area larger than Texas. Kansu shares a 350-nautical-mile (nm) political boundary with Mongolia. In addition, common provincial boundaries are shared with Tsinghai, Szechwan, and Shensi, as well as with Ningsia Hui and Sinkiang Autonomous Regions.

3. The most outstanding feature of this geography is the natural flat valley floor called the Kansu Corridor. This valley, lying 1,500 feet above sea level, extends for 1,000 nm through the center of the province in a northwest/southeast direction. Natural boundaries of varied type flank both sides of the corridor. The Tsinling and Chi-lien Mountains, reaching heights up to 15,000 feet, line the southern flank, while areas of desert, dunes, and loess plateau line the north. These features control the installation and population density pattern within the province. Although the majority of the population lives near the capital, Lan-chou, other quite heavily inhabited areas, i.e., oasis cities, dot the landscape of the corridor.

4. Major lines of communications and transportation follow this same general pattern. The only rail line from central China to the west extends from Lan-chou to Wu-lu-mu-chi in Sinkiang Autonomous Region. This rail line is fed by two major lines leading into the province from the east. One enters from Ningsia Hui Autonomous Region and the other from Shensi Province.

5. There are four surface-to-surface missile facilities in Kansu, the most important of which is Shuang-cheng-tzu Missile Test Center, the largest SSM test center in China.

6. Ten surface-to-air missile facilities are in the province, of which one is R&D-associated and two are training areas. These constitute two of the three SAM training areas in China.

7. Kansu is part of the Lan-chou air defense district. Of the 18 airfields in the province, seven are fighter bases, five are general military support airfields, and six are civil. There currently is no bomber unit deployed in Kansu.

8. At least six and possibly as many as nine division-sized ground forces units have been observed in Kansu. They consist of infantry, artillery, armored, cavalry, and AAA units. In addition, there is a probable specially tailored border defense unit of undetermined size in the province.

25X1

10. There are 63 electronics facilities in the province, consisting of EW/AW radar facilities, communications facilities, radio relay facilities, and a large space tracking facility at Lan-chou.

11. Heavy industry is concentrated mainly along the corridor. There are 90 significant industry-related facilities in the province. One of these, Pai-yin Explosives Plant 805, is considered strategic. We believe that high explosives which may be used in nuclear weapons may be produced at this plant. Additionally, eight are considered major.

TOP SECRET RUFF

25X1

25X1

**Page Denied**

MISSILES

TOP SECRET RIUFF

25X1  
25X1  
25X1

12. Twenty-seven POL, four explosives, and 18 general storage facilities are located in Kansu. Of these, seven are extensive enough to be considered regional.

13. [ ] only three facilities in Kansu remain unidentified. All are underground cave-type activity. One is at Shuang-cheng-tzu; the other two are near Lan-chou. There are no naval facilities in Kansu.

25X1

### III. TARGET CATEGORIES

#### A. Missiles

##### Surface-to-Surface Missiles

14. There are currently four SSM-associated facilities within Kansu Province: Shuang-cheng-tzu Missile Test Center (SCTMTC), Wu-wei SSM Training School, Shuang-ta SSM Field Training Site, and Min-lo Probable SSM Fixed Field Position (Figure III-A-5 and Table III-A-1).

15. SCTMTC. The test center at Shuang-cheng-tzu was first observed on photography of August 1961. It is in the Gobi Desert, approximately 400 nm northwest of Lan-chou, and is the largest SSM R&D center in China.

16. The facilities at Shuang-cheng-tzu support R&D, functional model test launches, and troop training exercises. Facilities at the range include four launch complexes, SSM instrumentation/tracking facilities, two rangehead communications facilities, a main support base, and a myriad of operational support facilities (Figure III-A-1).

17. Operational testing probably began in 1961 and has included photographic observation of the research and development of the CSS-1 through CSS-X-4 missile systems (Figure III-A-2).

18. Wu-Wei. The Wu-wei SSM Training School, one of two SSM training schools in China, is at Wu-wei, 200 nm southeast of the Shuang-cheng-tzu Missile Test Center. It was first observed on photography in 1960.

19. Missile-related facilities at Wu-wei were added to a previously existing barracks area between 1961 and 1965. These facilities now include the training school, a practice launch pad, and missile equipment maintenance and storage areas.

20. SRBM-, CSS-1-, and CSS-2-associated equipment has been observed at the school in varying amounts and intervals since 1966.

21. Shuang-ta. Shuang-ta SSM Field Training Site was first observed in 1970 [ ]. The only known field training site in China, it is 20 nm south-southeast of Wu-wei SSM Training School.

25X1

22. Facilities at Shuang-ta, which were constructed in 1966, probably are associated with the Wu-wei SSM Training School. They include several drive-in revetments emplaced into the hillsides flanking a ravine and one concrete pad.

23. MRBM-associated equipment was observed there only [ ] when a CSS-1 exercise was in progress. This was the only missile activity ever observed at Shuang-ta.

25X1

24. Min-lo. The field position at Min-lo was present on photography as early as December 1970. It is in an isolated ravine 41 nm east of the Liu-ching-kou SSM Launch Complex [ ] which is in Tsinghai Province.

25X1  
25X1

25. The only permanent feature of the site is a probable launch pad.

26. Other identifying features include a graded earth apron surrounding the pad, a loop exit road, and several parking areas.

TOP SECRET RIUFF

25X1

25X1

27. No missile-related equipment has been observed at the facility (Figure III-A-3).

#### Defensive Missiles

28. There are 19 surface-to-air missile (SAM)-related facilities in Kansu Province. Seven of these facilities contain SAM equipment; however, only four of the seven are deployed in the standard SAM role. Three facilities are R&D and/or training related.

29. The balance of the defensive missiles facilities within the province consists of unoccupied standard sites, unoccupied training sites, and support-related facilities (Figure III-A-6 and Table III-A-2).

30. Occupied Sites. Three of the four occupied sites deployed in the standard role defend a metropolitan area, Lan-chou. Lan-chou SAM sites C29-1, E04-1, and F35-1 are deployed west, north, and northwest of the city, respectively. C29-1 has been occupied since August 1970; E04-1 was first observed in December 1969; and F35-1 was deployed in July 1972.

31. The remaining occupied site, Yu-men A12A-1, is deployed south of the plutonium production plant at Yu-men. It has been occupied since August 1968.

32. Unoccupied Sites. There are four SAM sites presently unoccupied in the province. Two of the sites are at Shuang-cheng-tzu, the third is at Yu-men, and the fourth at Lan-chou. SCTMTC has never been observed occupied, while B07-1 has been unoccupied since August 1970. The site at Yu-men, A12-1, apparently has been abandoned since May 1969. Lan-chou SAM Site B12A-1 has been unoccupied since July/August 1970.

33. R&D Facilities. The SAM launch complex at SCTMTC is 15 nm northwest of the main support base. It consists of three launch sites, housing/support facilities, and seven tracking facilities. These sites support Chinese SAM research and development test programs.

34. Training Sites. Shan-tan A is one of three CSA-1 training facilities in China. It is in Shan-tan, approximately 220 nm northwest of Lan-chou. The facility consists of five CSA-1 sites apparently used in training and operational roles. As many as four of the five sites have been occupied at one time. Sites at Shan-tan A have been active since they were first observed in December 1965.

35. Shan-tan B is probably the live-firing training area associated with Shan-tan A SAM Training Area. It is approximately 14 nm north-northwest of Shan-tan. The facility contains three launch sites and housing/support facilities. Activity at Shan-tan B has been observed at intervals since initial observation in November 1966 (Figure III-A-4).

25X1



**Page Denied**

Table III-A-I. Surface-to-Surface Missiles, Kansu Province (Items keyed to Figure III-A-5)

Item	Installation Name/BE/Coordinates
1	Shuang-cheng-tzu SSM MTR Complex [redacted] 41-08-00N 100-15-00E
2	Shuang-cheng-tzu SSM Launch Test Site A [redacted] 41-16-52N 100-18-24E
3	Shuang-cheng-tzu SSM Lnch Test Site B 1/2 [redacted] 41-18-28N 100-19-14E
4	Shuang-cheng-tzu SSM Lnch Test Site C [redacted] 41-21-29N 100-19-37E
5	Shuang-cheng-tzu SSM Lnch Test Site D [redacted] 41-25-39N 100-16-36E
6	Shuang-cheng-tzu SSM Trkng Fac 1 [redacted] 41-19-47N 100-21-50E
7	Shuang-cheng-tzu SSM Trkng Fac 2 [redacted] 41-24-00N 100-21-57E
8	Shuang-cheng-tzu SSM Trkng Fac 3 [redacted] 41-27-21N 100-13-33E
9	Shuang-cheng-tzu SSM Trkng Fac 4 [redacted] 41-28-44N 100-05-04E
10	Shuang-cheng-tzu MTC SSM Trkng Fac 5 [redacted] 41-39-51N 099-57-37E
11	Shuang-cheng-tzu SSM Trkng Fac 6 [redacted] 41-15-00N 100-20-00E
12	Shuang-cheng-tzu SSM Trkng Fac 7 [redacted] 41-12-07N 100-12-00E

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

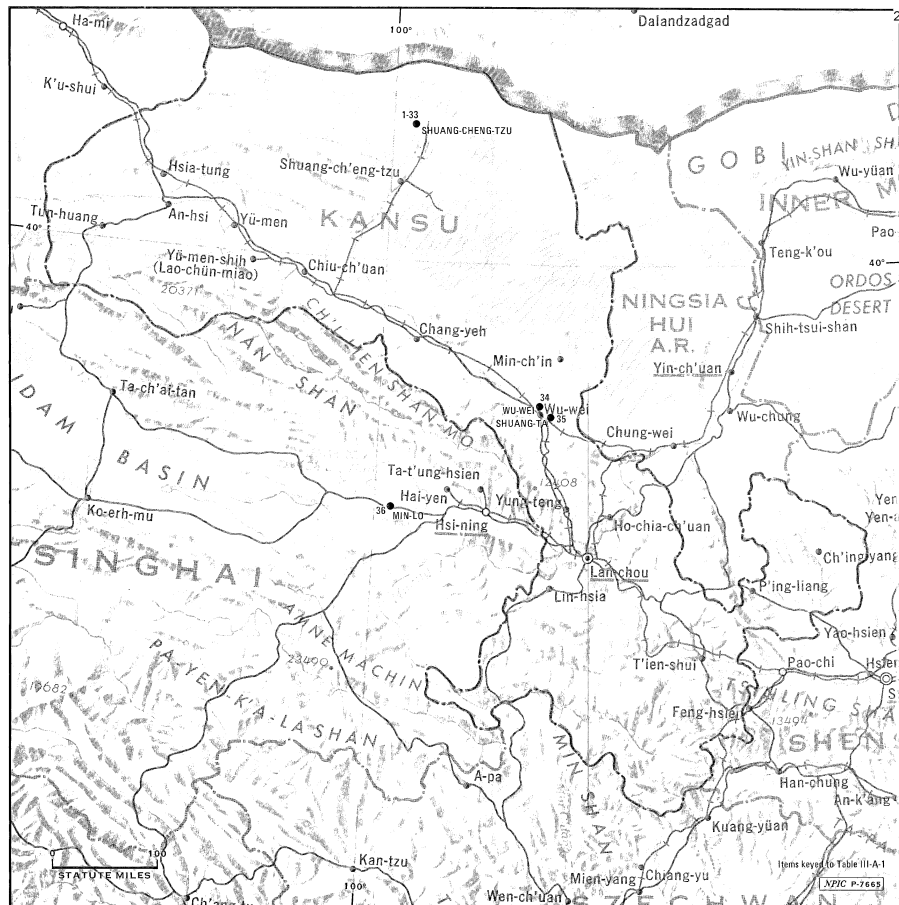
25X1

25X1

25X1

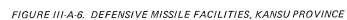
Table III-A-5. (Continued)

Item	Installation Name/BE/Coordinates
13	Shuang-cheng-tzu MTC SSM Trng Fac 8 41-07-49N 100-05-23E
14	Shuang-cheng-tzu MTC SSM Trng Fac 10 41-17-35N 100-20-00E
15	Shuang-cheng-tzu SSM Trng Fac 11 41-17-55N 100-19-28E
16	Shuang-cheng-tzu SSM Trng Fac 12 41-21-45N 100-19-48E
17	Shuang-cheng-tzu SSM Trng Fac 13 41-16-13N 100-38-32E
18	Shuang-cheng-tzu SSM Trng Fac 14 41-17-08N 100-20-56E
19	Shuang-cheng-tzu SSM Trng Fac 15 41-26-14N 100-22-08E
20	Shuang-cheng-tzu SSM Trng Fac 16 41-18-23N 100-21-39E
21	Shuang-cheng-tzu SSM Trng Fac 17 40-33-52N 99-27-05E
22	Shuang-cheng-tzu SSM Trng Fac 18 40-46-04N 99-54-21E
23	Shuang-cheng-tzu MTC SSM Trng Fac 19 41-20-45N 100-19-43E
24	Shuang-cheng-tzu SSM Trng Fac 20 40-38-30N 100-03-00E
25	Shuang-cheng-tzu SSM Trng Fac 21 40-28-00N 99-55-00E
26	Shuang-cheng-tzu SSM Trng Fac 22 40-37-15N 100-23-30E
27	Shuang-cheng-tzu SSM Trng Fac 23 40-58-30N 100-13-00E
28	Shuang-cheng-tzu SSM Trng Fac 24 40-43-24N 99-59-39E
29	Shuang-cheng-tzu SSM Support Facility 41-15-54N 100-20-47E
30	Shuang-cheng-tzu Missile Support Fac 40-59-09N 100-12-24E
31	Shuang-cheng-tzu SSM Support Facility 41-06-17N 100-16-51E
32	Shuang-cheng-tzu Liquid Oxygen Plt 41-02-39N 100-10-36E
33	T'ien-tung-ta-wan Components Stor 41-02-50N 100-12-47E (Shuang-cheng-tzu area)
34	Wuwei SSM Training Position 37-56-50N 102-39-50E
35	Shuang-ta SSM Field Trng Site 37-36-15N 102-51-20E
36	Min-to Prob SSM Fixed Field Position 38-04-20N 100-57-50E



25X1

Item	Installation Name/BE/Coordinates
1	...
2	...
3	...
4	...
5	...
6	...
7	...
8	...
9	...
10	...
11	...
12	...
13	...
14	...
15	...
16	...
17	...
18	...
19	...
20	...
21	...
22	...
23	...
24	...
25	...
26	...
27	...
28	...
29	...
30	...
31	...
32	...
33	...
34	...
35	...
36	...
37	...
38	...
39	...
40	...
41	...
42	...
43	...
44	...
45	...
46	...
47	...
48	...
49	...
50	...
51	...
52	...
53	...
54	...
55	...
56	...
57	...
58	...
59	...
60	...
61	...
62	...
63	...
64	...
65	...
66	...
67	...
68	...
69	...
70	...
71	...
72	...
73	...
74	...
75	...
76	...
77	...
78	...
79	...
80	...
81	...
82	...
83	...
84	...
85	...
86	...
87	...
88	...
89	...
90	...
91	...
92	...
93	...
94	...
95	...
96	...
97	...
98	...
99	...
100	...



AIR

TOP SECRET RUFF

25X1

## B. Air

### Airfields

36. Kansu Province is part of the Lan-chou Air Defense District. There are 18 airfields in this province, seven fighter, five general military support, and six civil (Figure III-B-2 and Table III-B-1).

### Bomber Activity

37. Although no deployed bomber units have been identified in Kansu Province, BADGER, BEAGLE, and BULL aircraft have been observed at Shuang-cheng-tzu Airfield. These aircraft were observed primarily within an area of the airfield which is similar in design to Soviet airborne weapon test areas. Equipment similar in configuration to Soviet ASM equipment has been observed in this area, as well as unidentified equipment apparently of Chinese design. An unidentified missile similar in appearance to the Chinese CSA-1, but varying dimensionally, was observed there in November 1970 (Figure III-B-1). In addition, an L-shaped instrumentation and airdrop marker/bombing range is east of the airfield. These factors suggest that the airfield may be associated with ASM activity.

### Fighter Airfields

38. Four of the seven fighter airfields, Wu-Wei, Chang-yeh, Lin-tao, and Ching-shui, currently have two fighter regiments each. While only FAGOT/FRESCO are at Wu-wei and Chang-yeh, Lin-tao and Ching-shui have a mixture of FARMER and FAGOT/FRESCO.

39. The remaining three fighter airfields, Shuang-cheng-tzu, Man-shui, and Ta-la-chih, have contained up to one regiment of fighter aircraft in the past. While Shuang-cheng-tzu and Man-shui have exhibited a mixture of FAGOT/FRESCO and FARMER, only FAGOT/FRESCO have been observed at Ta-la-chih.

40. Although no AAM equipment has been observed at any airfields in Kansu, facilities similar to AAM facilities in the Soviet Union are present at Shuang-cheng-tzu Airfield, Ching-shui Airfield, and Lin-tao Airfield.

### Other Military-Associated Airfields

41. Five airfields: Shuang-cheng-tzu Airfield North, O-chi-na-chi Airfield, Yu-men Airfield, Chiu-chuan Airfield, and Hsia-kuan-ying Airfield appear to support general military activity in their respective areas. Because of the restrictions of length and type of runways, only Chiu-chuan and Hsia-kuan-ying could support fighter activity.

### Other Airfields

42. The remaining six airfields support either civil air activity or farming activity within the province.

### Hardened Airfield Facilities

43. Hardened aircraft storage shelters are present at Shuang-cheng-tzu Airfield, Chang-yeh Southeast, Wu-wei, and Lin-tao Airfield.

### Airfield-Related Facility

44. Shuang-cheng-tzu Instrumentation Bombing Range is 10 nm southeast of Shuang-cheng-tzu Airfield. The facility consists of three instrumentation sites, complete with optical tracking stations and radar, forming a triangle with a circular airdrop marker. This facility probably supports live-fire activity associated with the Shuang-cheng-tzu Airfield.

TOP SECRET RUFF

25X1

25X1

**Page Denied**

TOP SECRET RIJFF

25X1  
25X1  
25X1

Table III-B-1. Airfields and Air-Related Facility, Kansu Province (Items keyed to Figure III-B-2)

Item	Installation Name/ BE/Coordinates	Runway-- Orientation Length & Width (ft) Surface Material	Air Order-of-Battle Latest Photography	Remarks
1	Shuang-cheng-tzu Afd N 40-57-45N 100-14-46E	6,940x270, E/W graded earth		Afd prob supporting mil acty in area. No OB ever observed.
2	Shuang-cheng-tzu Afd 40-23-59N 099-47-34E	13,500x270, NE/SW concrete	1 BEAGLE, 7 CRATE, 3 COLT, 1 HOUND,	Fighter base also supports research & develop- ment at nearby SCT Mil Test Center. As many as two regts of fighter act have been observed on previous coverage, 1 BADGER, 5 BEAGLE, 24 FARMER, 2 FISHBED, 13 FAGOT/ FRESCO, 1 HOUND, 2 CRATE, 1 COLT.
3	O-chi-na-chi Afd 41-57-45N 101-02-48E	500x200, NE/SW graded earth		Afd prob supporting mil acty in area. No OB ever observed.
4	Yu-men Airfield 40-18-00N 097-05-26E	2,600x175, NE/SE 2,000x140, E/W graded earth		Afd prob supporting mil acty in area. No OB ever observed.
5	An-hai Airfield 40-31-00N 095-47-00E	4,050x210, E/W graded earth		Civil afd supporting town of An-hai. No OB ever observed.
6	Chang-yeh Afd SE 38-48-07N 100-40-20E	7,272x182 6,960x185, NW/SE concrete	38 FAGOT/FRESCO, 1 COLT,	Fighter afd, 62 FAGOT/FRESCO,
7	Chiu-chuan Airfield 39-51-25N 098-20-29E	7,250x325, 592x330, 5,500x200, NW/SE, asphalt; NE/SE, graded earth, NNE/SSW, graded earth	No OB,	Civil afd supporting town of Chiu-chuan. Afd supporting mil acty in the area. 1 CRATE.
8	Chiu-chuan Airfield S 39-41-45N 098-30-07E	4,400x200, NE/SW, graded earth		Afd prob supporting farming acty. No OB ever observed.
9	Ching-shui Airfield 39-33-13N 098-53-08E	8,180x160, WW/SE, concrete	17 FARMER, 5 FAGOT/FRESCO	Fighter afd, 18 FARMER, 11 FAGOT/ FRESCO
10	Chien-shan Afd 38-55-48N 098-32-45E	2,908x408, NW/SE		Afd supporting farming acty. No OB ever observed.
11	Lan-chou Airfield 36-02-21N 103-52-49E	7,500x300, ENE/WSW	6 COLT,	Civil afd supporting Lan-chou. 6 COLT,
12	Wu-wei Airfield 37-59-21N 102-34-06E	8,200x190, 7,250x190, NW/SE, NW/SE, concrete	39 FAGOT/FRESCO, NW/SE, NW/SE, concrete	Fighter afd, 48 FAGOT/FRESCO, 1 COLT.
13	Man-shui Airfield 36-30-37N 103-36-55E	11,100x175, N/S	18 FARMER, 1 CRATE, 3 FAGOT/ FRESCO, 1 COOT, 2 COKE, 1 CRATE	Fighter afd. As many as 8 BULL aircraft have been observed at this afd. 18 FARMER, 3 FAGOT/FRESCO, 1 COLT, 2 COKE, 1 CRATE
14	Tai-lashih Airfield 36-37-38N 104-58-52E		No OB,	Fighter afd, 20 FAGOT/FRESCO, 1 FARMER
15	Tien-shui Airfield 34-33-35N 105-51-40E	3,200x150, E/W		Civil afd supporting Tien-shui. No OB ever observed.
16	Liu-tso Airfield 35-18-26N 103-50-06E	10,000x185, NNE/ SSW	20 FARMER, 31 FAGOT/FRESCO,	Fighter afd pos tmg school, 20 FARMER, 31 FAGOT/FRESCO
17	Min-hsien Airfield 34-26-02N 104-00-09E	4,800x300, ENE/WSW		Civil afd supporting Min-hsien. No OB ever observed.
18	Hsia-kuan-ying Afd 35-55-05N 104-12-57E	NNW/SE	12 COLT, 3 MAX/ MOOSE, 6 HOUND,	Prob mil supt and supply afd. 1 CRATE, 16 COLT,
AIR-RELATED FACILITY				
19	Shuang-cheng-tzu Instrumentation Bombing Range 40-42-20N 100-31-20E			

\*Represents highest OB observed.



FIGURE III-B-2. AIRFIELDS AND AIR-RELATED FACILITY, KANSU PROVINCE

TOP SECRET RIJFF

25X1  
25X1  
25X1



GROUND FORCES

### C. Ground Forces

45. Photography has revealed enough facilities and equipment in Kansu Province to accommodate at least six and possibly as many as nine division-sized units (Figure III-C-2 and Table III-C-1). They include a division-sized infantry unit at Ping-liang, a division-sized artillery unit at Yung-teng, a division-sized armored unit at Chiu-chuan, a division-sized cavalry unit at Lin-hsia, and division-sized AAA units at Lan-chou (Ho-kou), and Yu-men. Two probable units, a division-sized infantry unit and a division-sized AAA unit, are in the Chang-yeh area. Table III-C-1 lists all major ground forces-associated targets within Kansu.

46. A probable, specially tailored, division-sized border defense unit is situated at or near the eight strategic defensive mounds. However, because the mounds contain varying amounts of ground forces weapons, and because the size of the units at each mound cannot be determined, the exact size and composition of the unit at Shuang-cheng-tzu remains unknown (Figure III-C-1).

25X1

47. There are at least 53 other ground forces-associated facilities in Kansu. However, the level and concentration of activity at these remaining installations precludes their identification as organized units (Figure III-C-3 and Table III-C-2).

#### Major Ground Forces Facilities

48. A division-sized infantry unit is at Ping-liang, 160 nm east of Lan-chou. Personnel appear to be housed in four installations: Ping-liang Army Barracks East AL 4, Ping-liang Army Barracks SSE AL 3, Ping-liang Army Barracks W AL 1, and Ping-liang Army Barracks NW AL 2. An artillery regiment possibly organic to the infantry division is at the latter. The installations have appeared active since first observed in early 1967.

49. Three regiment-sized areas (Yung-teng Army Bks SSE AL 1, Yung-teng Army Bks SSE AL 2, and Yung-teng Army Bks SSE AL 3), as well as the presence of large numbers of field artillery pieces, indicate the presence of a division-sized artillery unit at Yung-teng. Yung-teng is 60 nm north-northwest of Lan-chou along the Lan-chou/Wu-lu-mu-chi rail line. All of the installations have a large number of vehicle and equipment storage buildings.

50. The regimental installations at Yung-teng have remained active since first observed on photography in August 1964. Field artillery pieces have also been observed at Ping-cheng-pao Military Training Area, 15 nm northeast of Yung-teng. Ping-cheng-pao appears to be a training area used for field exercises by the units at Yung-teng.

51. A probable armored division is in three regiment-sized installations, Chiu-chuan Armor Inst SW, Chia-yu-kuan Armor Installation, Chin-fo-ssu Army Bks 1, and one central administration and repair facility, Chiu-chuan Army Bks S AL 1, in the Chiu-chuan area. Chiu-chuan is 200 nm south of the Mongolian border and 30 nm west of the rail line leading to Shuang-cheng-tzu Missile Test Center. Elements of the armored unit were first observed in the area at Chin-fo-ssu Army Barracks in June 1971. Two additional regimental areas were observed at Chia-yu-kuan Armor Installation and Chiu-chuan Military Installation Southwest in February 1972. The number of armored vehicles has increased steadily in the division area.

52. Three major regiment-sized barracks areas, Lin-hsia Army Bks SW AL 1, Lin-hsia Army Bks N AL 3, and Lin-hsia, HQ Cav Div A Army Bks AL 3, are in the Lin-hsia area, 50 nm southwest of Lan-chou. They provide sufficient facilities to accommodate a division-sized unit. The presence of horses, horse sheds, and hitching posts indicates the unit is probably cavalry. The observation of division-sized elements within the Lin-hsia area dates to 1963 and the area has remained active.

53. Enough light AAA pieces to equip a AAA division are deployed in 17 sites in the Ho-kou area, 17 nm west of Lan-chou. Deployment west and southwest from Ho-kou suggests the role of the unit is to provide defensive support for the Lan-chou Gaseous Diffusion Plant. [REDACTED] Main housing and support installations associated with the unit appear to be at Ho-kou Barracks Area South and Ho-kou military installations.

54. Elements of a division-sized AAA unit are in the Yu-men area, along the Lan-chou/Wu-lu-mu-chi rail line. The unit consists of three regimental areas forming an arc north [REDACTED] No large regimental barracks areas are within the area. The accommodations for personnel within the unit area consist of on-site billeting and support facilities. The unit apparently deployed to its present location between mid-1971 and early 1972. No changes have occurred since the initial observation in February 1972.

55. Elements of two possible divisions, an infantry division and an AAA division, are contained at 12 installations in the Chang-yeh area, 270 nm northwest of Lan-chou. Enough equipment and facilities to accommodate both division-sized units are dispersed along a 50-nm-segment of the Lan-chou/Wu-lu-mu-chi rail line between Kao-tai and Chang-yeh. Barracks have been observed in the Chang-yeh area since June 1971; however, only scattered equipment sightings accompanied these identifications. The construction of additional barracks facilities was observed after mid-1971. This activity was paralleled by an increased number of equipment sightings, which reached a peak in November 1972. The area remains active and construction continues to date.

TOP SECRET RUFF

25X1

25X1

25X1

## Special Defensive Areas

56. A unit of undetermined size and type is dispersed around and among eight special defensive mounds along the O-chi-na River Valley north of the Shuang-cheng-tzu Missile Test Center. The mounds are as near as 13 nm and as far as 135 nm from the China-Mongolian border.

57. Although the exact size and type of unit occupying each mound cannot be ascertained, indications are that a probable battalion-sized unit occupies each installation. Field artillery, as well as AAA, has been observed at all of the mounds except Shuang-cheng-tzu Special Defensive Mound 7. Other installations, perhaps belonging to the same unit, include two defensive weapons positions, Shuang-cheng-tzu Military Area and Shuang-cheng-tzu Weapons Positions. Field artillery pieces have been observed at both installations. The number and size of the installations, as well as the amount of equipment observed in the area, indicate the unit may be a division-sized border defense unit.

## Other Ground Forces Facilities

58. The remaining ground forces-associated targets within the province vary greatly in physical size, pattern, and concentrations. In addition, although 12 of these have exhibited order-of-battle in the past, no large concentrations have been observed. These two limiting factors have precluded their identification with, or as, organized units.

Table III-C-1. Major Ground Forces Facilities, Kansu Province (Items keyed to Figure III-C-2)

Item	Installation Name/ BE/Coordinates	Size/Function	Ground or GFW OB/Latest Photography	Remarks/Latest Photography	
1	Ping-liang Army Bks NW AL 2 [redacted] 35-34-05N 106-37-45E	Regt-sized instal Infantry	38 cargo trucks, 12 pieces of equip, [redacted]	42 FA pieces, [redacted] OB never observed	25X1 25X1
2	Ping-liang Army Bks A Hq Inf Div AL 4 [redacted] 35-31-28N 106-43-12E	Regt-sized instal Infantry	[redacted]	OB never observed	25X1
3	Ping-liang Army Bks SSE AL 3 [redacted] 35-28-30N 106-51-25E	Regt-sized instal Infantry	[redacted]	OB never observed	25X1 25X1
4	Ping-liang Army Bks W AL 1 [redacted] 35-32-55N 106-40-10E	Hq/admin/instal Infantry	[redacted]	OB never observed	25X1
5	Yung-teng Army Bks A Arty Div Hq AL 1 [redacted] 36-42-36N 103-16-29E	Regt-sized instal Artillery	6 FA, 26 cargo trucks, 3 pieces of equip, [redacted]	7 FA pieces, [redacted]	25X1 25X1
6	Yung-teng Army Bks SSE AL 2 [redacted] 36-40-52N 103-17-25E	Regt-sized instal Artillery	6 cargo trucks, [redacted]	16 FA pieces, [redacted]	25X1 25X1 25X1
7	Yung-teng Army Bks SSE AL 3 [redacted] 36-40-32N 103-17-32E	Regt-sized instal Artillery	4 FA pieces, 14 cargo trucks, [redacted]	8 FA pieces [redacted]	25X1 25X1
8	Ping-cheng-pao Mil Trng Area [redacted] 37-01-00N 103-20-30E	No permanent facs Artillery	16 FA pieces, 35 cargo trucks 20 tents, [redacted]		25X1
9	Chiu-chuan Armor Instal SW [redacted] 39-38-53N 098-20-36E	Regt-sized instal Armor	7 armored vehicles, 6 prob AA gun, 9 cargo trucks, [redacted]	126 tanks, 5 poss armored vehicles*, 51 cargo trucks, [redacted]	25X1 25X1
10	Chiu-chuan Army Bks S AL 1 [redacted] 39-43-40N 098-30-40E	Div hqs & admin areas Armor	22 armored veh, 106 vehs, [redacted] [redacted]	26 tanks, 19 prob mod ZIL-57 (with machine gun mounts), 28 cargo trucks [redacted]	25X1 25X1
11	Chia-yu-kuan Army Bks A Armd Div Hq [redacted] 39-50-08N 098-05-41E	Regt-sized instal Armor	51 tank, 31 armored veh, 2 poss armored veh, 6 AA gun, 7 cargo trucks, [redacted]	71 tanks, 13 APCs, 8 vans, 98 cargo trucks*, [redacted]	25X1 25X1 25X1
12	Chin-fo-ssu Army Bks 1 [redacted] 39-28-06N 098-43-16E	Regt-sized instal Armor	80 armored veh, 60 cargo trucks, [redacted]	80 tanks, 4 armored vehicles, 52 cargo trucks, 6 van trucks, [redacted]	25X1
13	Lin-hsia Army Bks SW AL 1 [redacted] 35-33-36N 103-07-57E	Regt-sized instal Cavalry	[redacted]	OB never observed	25X1

TOP SECRET RUFF

25X1

25X1

TOP SECRET RUIFE

Table III-C-1. (Continued)

Item	Installation Name/ BE/Coordinates	Size/Function	Ground or GFW OB/Latest Photography	Remarks/Latest Photography	
14	Lin-hsia Army Bks N AL 2 [redacted] 35-36-36N 103-12-20E	Regt-sized instal Cavalry	[redacted]	OB never observed	25X1 25X1
15	Lin-hsia Army Bks [redacted] 35-36-15N 103-10-21E	Poss batt-sized bks area Cavalry	[redacted]	OB never observed	25X1
16	Lin-hsia Hq Cav Div A Army Bks AL 3 [redacted] 35-35-10N 103-11-50E	Regt-sized instal Cavalry	[redacted]	OB never observed	25X1
17	Ho-kou Bks Area S [redacted] 36-03-00N 103-26-15E	Batt-sized bks area AAA	70 AA guns, [redacted]	70 AA gun, 37 cargo trucks, [redacted]	25X1
18	Ho-kou Mil Instl [redacted] 36-10-45N 103-26-10E	Batt-sized instal AAA	76 AA gun, [redacted]		25X1
19	Yu-men AAA Regt Mil Area ENE [redacted] 40-19-00N 097-32-00E	On-site housing facs. No large permanent bks AAA	62 AA gun [redacted]		25X1 25X1
20	Yu-men AAA Regt Bks Area NE [redacted] 40-26-50N 097-21-00E	On-site housing facs; no large permanent bks AAA	48 AA gun [redacted]		25X1
21	Yu-men AAA Regt Mil Area N [redacted] 40-20-00N 097-02-00E	On-site housing facs; no large permanent bks AAA	54 AA gun [redacted]		25X1
22	Hua-chai-tzu Mil Area [redacted] 38-51-00N 100-24-00E	Scattered quarters Infantry	8 FA, 4 howitzer, 8 mortar, 54 cargo trucks, [redacted]	12 FA pieces, 14 AA guns, 70 cargo trucks, [redacted]	25X1 25X1 25X1
23	Chang-yeh Army Bks N AL 7 [redacted] 38-56-30N 100-26-30E	Batt-sized bks area Infantry	No OB, [redacted]	29 cargo trucks, [redacted]	25X1 25X1
24	Chang-yeh Army Bks NNE [redacted] 38-57-00N 100-27-30E	Poss batt-sized bks area	[redacted]	OB never observed	25X1
25	Chang-yeh Army Bks AL 5 [redacted] 38-55-31N 100-26-40E	Poss admin bks area Infantry	No OB, [redacted]	8 FA pieces, 8 AAA pieces, [redacted]	25X1
26	Chang-yeh Hq Inf Div and Bks AL 4 [redacted] 38-56-00N 100-26-20E	Batt-sized bks area Infantry	[redacted]	OB never observed.	25X1
27	Chang-yeh Army Bks 2 [redacted] 38-57-10N 100-26-20E	Batt-sized bks area Infantry	21 cargo trucks, [redacted]	6 FA pieces, 12 AA guns, 19 cargo trucks, [redacted]	25X1 25X1
28	Chang-yeh Army Bks AL 3 [redacted] 38-56-29N 100-27-08E	Batt-sized bks area Infantry	No OB, [redacted]	26 AA guns, 11 cargo trucks, [redacted]	25X1 25X1
29	Lin-tse Army Bks AL 1 [redacted] 39-09-10N 100-10-45E	Batt-sized bks area Infantry	No OB, [redacted]	9 FA pieces, 9 prob pieces, 6 AA guns, 30 cargo trucks, [redacted]	25X1 25X1
30	Lin-tse Hq Inf Div A Bks S AL 2 [redacted] 39-09-01N 100-11-00E	Batt-sized bks area Infantry	27 AA gun, 2 fire control radar, 9 TPP, 6 cargo trucks, [redacted]		25X1 25X1
31	Sha-ching-tzu Army Bks AL 1 [redacted] 39-06-00N 100-16-10E	Batt-sized bks area Infantry	17 field gun, 12 howitzer, 4 mortar, 6 cargo trucks, [redacted]		25X1 25X1
32	Kao-tai Bks Area [redacted] 39-22-40N 099-48-50E	Poss batt-sized bks area Infantry	No OB, [redacted]	12 AA guns, [redacted]	25X1 25X1
33	Hsien-chuan Bks Area [redacted] 39-19-30N 099-43-20E	Batt-sized bks area Infantry	No OB, [redacted]	9 poss TPP, 6 cargo trucks, [redacted]	25X1 25X1
34	Chang-yeh Army Bks AL 5 [redacted] 38-55-31N 100-26-40E	Poss admin/hq area Infantry	[redacted]	OB never observed	25X1

TOP SECRET RUIFE

Item	Installation Name/ BE/Coordinates	Size/Function	Ground or GFW OB/Latest Photography	Remarks/Latest Photography
35	Lichia-tung-chung Army Bks AL 1 [redacted] 39-06-00N 100-21-00E	5 batt-sized bks areas Infantry	[redacted]	OB never observed
36	Hsien-chuan-tzu Bks Area NW 39-21-00N 099-41-30E	Company size	[redacted]	OB never observed
37	Shuang-cheng-tzu Spec Def Mound 2 [redacted] 41-32-10N 100-33-27E	5 batt-sized bks areas Infantry Border defense	3 prob AA guns, [redacted]	11 FA pieces, 4 AA guns, 1 prob tank?
38	Shuang-cheng-tzu Spec Def Mound 6 [redacted] 42-07-03N 100-54-05E	5 batt-sized bks areas Infantry Border defense	6 FA pieces, 4 AA guns, 5 cargo trucks, [redacted]	12 FA pieces, 4 AA guns?, [redacted]
39	Shuang-cheng-tzu Mill Area [redacted] 42-13-31N 101-08-53E	Posa batt-sized bks area Border defense	18 FA pieces, 16 cargo trucks, [redacted]	21 FA pieces, 1 prob FA piece?
40	Shuang-cheng-tzu Weapons Pos [redacted] 42-03-18N 101-32-12E	Semipermanent fasc Border defense	2 FA pieces, [redacted]	5 FA pieces, [redacted]
41	Tian-tsung-tse-nan Pool A Bks Area [redacted] 41-01-10N 100-12-35E	Batt-sized bks Border defense	No OB, [redacted]	6 122mm FA pieces, [redacted]
42	Shuang-cheng-tzu Spec Def Mound 8 [redacted] 40-25-46N 099-50-46E	Batt-sized bks Border defense	2 FA pieces, [redacted]	4 FA pieces, [redacted]
43	Shuang-cheng-tzu Spec Def Mound 3 [redacted] 41-56-10N 101-01-40E	Batt-sized bks Border defense	6 FA pieces, 16 AA guns, 14 cargo trucks, [redacted]	11 FA pieces, 9 AA guns, [redacted]
44	Shuang-cheng-tzu Spec Def Mound 4* [redacted] 41-43-23N 100-27-27E	Batt-sized bks Border defense	No OB, [redacted]	6 FA pieces, 4 AA guns, [redacted]
45	Shuang-cheng-tzu Spec Def Mound 5 [redacted] 41-45-57N 100-42-08E	Batt-sized bks Border defense	1 tank, 6 FA pieces, 12 AA guns, 16 cargo trucks, [redacted]	7 FA pieces, 6 prob FA pieces, [redacted]
46	Shuang-cheng-tzu Spec Def Mound 1 [redacted] 42-19-51N 101-06-54E	Batt-sized bks Border defense	3 FA pieces, 9 AA guns, 13 cargo trucks, 1 dummy tank, [redacted]	6 FA pieces, 4 prob AA guns?
47	Shuang-cheng-tzu Border Outpost 1 [redacted] 42-28-00N 101-07-30E	Border outpost Border defense	[redacted]	OB never observed
48	Shuang-cheng-tzu Defensive Sipt [redacted] 41-16-00N 100-20-20E	Several quarters Border defense	[redacted]	OB never observed
49	Shuang-cheng-tzu Bks Area AL 3 [redacted] 41-07-10N 100-13-00E	Hq & admin area Border defense	[redacted]	OB never observed
50	Lu-tiao-chung Mill Outpost [redacted] 42-26-06N 100-10-20E	Mill outpost Border defense	[redacted]	OB never observed
51	Shuang-cheng-tzu Def Strongpoint [redacted] 42-22-48N 101-18-46E	No permanent housing facilities Border defense	[redacted]	OB never observed
52	Shuang-cheng-tzu Spec Def Mound 7 [redacted] 41-32-38N 100-24-02E	Batt-sized bks Border defense	[redacted]	OB never observed
53	Shuang-cheng-tzu Prob Bks Area [redacted] 40-55-30N 100-08-40E	Batt-sized bks area Border defense	[redacted]	OB never observed



25X1  
25X1

Table III-C-2. Other Ground Forces Facilities, Kansu Province (Items keyed to Figure III-C-3)				
Item	Installation Name/SE/Coordinates	Size/Function	OB/Latest Photography	Remarks/Latest Photography
1	Lu-tsao-kou Prob Border Outpost 42-39-10N 096-48-02E	Border outpost		OB never observed
2	Lu-tsao-kou Border Outpost 42-27-10N 097-08-15E	Border outpost		OB never observed
3	Ming-shui Prob Bdr Security Post 41-48-22N 097-00-59E	Border outpost		OB never observed
4	Chia-hsin-tseu Rdg Outpost 42-03-55N 102-33-38E	Border outpost		OB never observed
5	An-hsi Bks Area 40-31-20N 095-45-20E	Post roadside depot		OB never observed
6	Yu-men Army Bks East 40-12-55N 097-12-35E	Post batt-sized bks area		OB never observed

Table III-C-2. (Continued)				
Item	Installation Name/SE/Coordinates	Size/Function	OB/Latest Photography	Remarks/Latest Photography
7	Yu-men Bks Area NW 40-19-20N 096-59-00E	Post batt-sized bks area		OB never observed
8	Chih-chin-hsia Bks Area NE 40-13-27N 097-27-53E	Post batt-sized bks area		OB never observed
9	Chih-chin-hsia Bks Area 40-09-15N 097-15-00E	Prob batt-sized bks area	No OB,	6 AA guns, 12 post beamtrucks, 24 searchlights,
10	Chiu-chuan Bks Area 38-45-10N 098-29-30E	Batt-sized bks area		OB never observed
11	Chiu-chuan Prob Mil Instal 39-45-50N 098-31-10E	Batt-sized instal	6 AA guns,	6 AA guns,
12	Chiu-chuan Bks Area N 39-46-00N 098-31-30E	Quarters for AAA battery	6 AA guns,	6 AA guns,
13	Chiu-chuan Mil Instal 39-46-00N 098-36-30E	Quarters for AAA battery	No OB,	20 AA guns, 51 cargo trucks,
14	Ching-shui Bks Area 39-35-40N 098-46-10E	Batt-sized bks area	24 AA guns,	17 AA guns, 21 cargo trucks,
15	Chin-ta Bks Area 39-58-40N 098-53-45E	Post batt-sized bks area		OB never observed
16	Lin-shui Prob Bks Area 39-51-07N 098-48-56E	Post batt-sized bks area		OB never observed
17	Shan-tan Prob Bks Area 38-45-10N 107-03-10E	Prob batt-sized bks area		OB never observed
18	Yung-chang Prob Bks Area 38-15-06N 102-01-30E	Post batt-sized bks area		OB never observed
19	Wu-wei Mil Instal 37-57-40N 102-33-15E	Post hq admin instal		OB never observed
20	Wu-wei Veh Repair Fac 37-55-10N 102-38-20E	Repair facility		OB never observed
21	Wu-wei Prob Constr Engr Bn 37-56-20N 102-37-30E	Prob batt-sized bks area		OB never observed
22	Wu-wei Bks Area West 37-55-50N 102-37-20E	Prob batt-sized bks area		OB never observed
23	Wu-wei Bks Area NE 37-56-20N 102-38-20E	Prob batt-sized bks area		OB never observed
24	Wu-wei Bks E 37-55-30N 102-38-50E	Prob batt-sized bks area		OB never observed
25	Wu-wei Prob Bks SW 37-55-35N 102-37-35E	Prob batt-sized bks area		OB never observed
26	Ching-lem Army Bks AL 1 37-40-44N 102-50-58E	Regt-sized bks area		OB never observed
27	Chou-chia-chuang Pos Mil Area 37-36-00N 102-49-32E	Pos mil outpost	No OB,	4 FA pieces,
28	Tien-chu Bks Area 37-15-00N 102-51-30E	Post batt-sized bks area		OB never observed
29	Yung-teng Pos Bks Area 36-52-50N 103-11-48E	Company size		OB never observed

25X1  
25X1

25X1

25X1  
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

Table III-C-2. (Continued)

Item	Installation Name/BE/Coordinates	Size/Function	OB/Latest Photography	Remarks/Latest Photography
30	Yung-tang Prob Mil Instal 36-44-00N 103-15-50E	Poss stor function		OB never observed
31	Yung-tang Mil Area 36-38-02N 103-19-14E	Company site	4 FA pieces	4 FA pieces
32	Liao-shan Def Pos 37-10-00N 104-03-20E	Under construction; size upon completion unknown	No OB	5 FA pieces
33	Shui-chuan Bks A Veh Stor Area 36-45-45N 104-00-00E	Poss batt-sized bks area	41 cargo trucks	41 cargo trucks
34	Chung-ho-pao Prob Bks Area 36-30-00N 104-32-15E	Prob batt-sized bks area	No OB	
35	Ta-ta-chih PCC & Mining Camp 36-40-00N 105-02-15E		No OB	
36	Man-shui Bks Area 36-31-30N 103-37-15E	Poss regt sized instal	24 cargo trucks	44 AA guns, 63 cargo trucks
37	Hung-cheng-tzu Army Bks AL 1 36-27-50N 103-23-40E	Poss batt-sized bks area		OB never observed
38	Lan-chou Prob Mil Instal Cen S 36-02-35N 103-47-55E	Batt-sized instal		OB never observed
39	Lan-chou Mil Region Hq 36-03-30N 103-51-05E	Hq & admin area		OB never observed
40	Liu-tao Mil Instal 35-23-08N 103-52-00E	Poss batt-sized instal		OB never observed
41	Yue-chung Bks Area 35-52-48N 104-06-24E	Poss batt-sized instal		OB never observed
42	Chiu-tao-sha Bks Area 35-39-30N 103-42-30E	Poss batt-sized instal		OB never observed
43	Ting-hai Mts Bks SW 35-34-20N 104-36-55E	Poss batt-sized instal		OB never observed
44	Ting-hai Mts Bks W 35-34-55N 104-36-55E	Poss batt-sized instal		OB never observed
45	Tsing-hai Mil Instal 35-34-20N 104-36-10E	Poss batt-sized instal	No OB	9 AA guns
46	Hsin-tien Bks Area 35-32-05N 103-50-10E	Poss batt-sized bks area		OB never observed
47	Wa-tsu-li Mil Area 34-42-00N 102-02-00E	Under construction. Size as yet undetermined		OB never observed
48	Pan-ao-shan Pos Mil Bks Area UCON 34-46-10N 105-01-40E	Under construction. Size as yet undetermined		OB never observed
49	Kan-ku Army Bks 1 34-43-30N 105-20-00E	Batt-sized bks area	4 cargo trucks	18 FA pieces, 18 prime movers, 30 cargo trucks
50	Ma-pao-chuan Bks WNW 34-32-40N 105-53-10E	Poss batt-sized instal	No OB	
51	Cho-ni Prob Mil Instal 34-35-20N 103-30-30E	Poss regt & refuel depot		OB never observed
52	Liang-chui Pos Mil Area 33-26-00N 104-48-20E	Poss regt & refuel depot		OB never observed
53	Ho-tao Army Bks AL 1 34-49-36N 102-30-32E	Poss regt & refuel depot		OB never observed

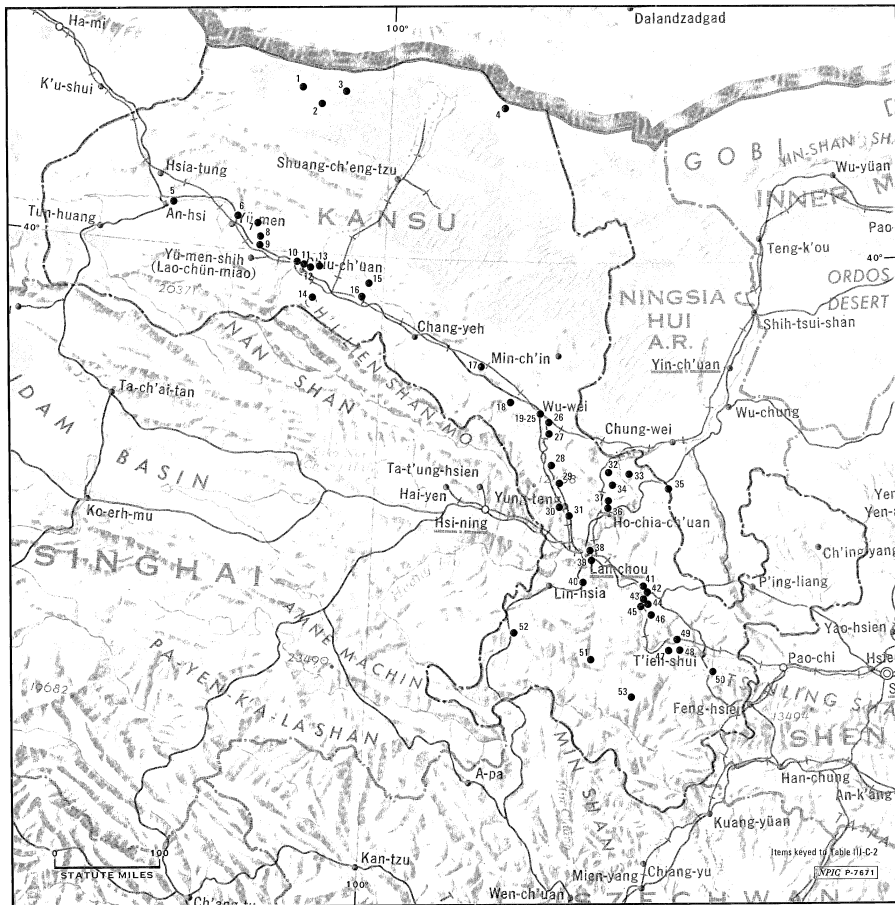


FIGURE III-C-3. OTHER GROUND FORCES FACILITIES, KANSU PROVINCE



**Page Denied**

Next 1 Page(s) In Document Denied

**ELECTRONICS**

**TOP SECRET RUFF**

25X1

25X1

**E. Electronics**

66. There are 63 electronics-related facilities in Kansu Province, most of which can be placed into the following four categories: space tracking, EW/AW radar, communications, and microwave radio relay facilities (Figure III-E-3 and Table III-E-1). The two main target concentrations are around Lan-chou and Shuang-cheng-tzu. Lan-chou is the largest metropolitan area in the province. Shuang-cheng-tzu is the location of the Shuang-cheng-tzu Missile Test Center.

**Space Tracking**

67. Lan-chou Space Tracking Facility, 20 miles east-southeast of Lan-chou, was first identified

25X1

68. It contains two [ ] parabolic dish antennas and is connected to a regiment-sized barracks area by underground cable.

25X1

**Radar Facilities**

69. The 29 radar facilities within the province can be placed into three main categories. They support airfields, provide border surveillance along the corridor area, and support the facilities at the Shuang-cheng-tzu Missile Test Center (Figure III-E-2).

**Communications**

70. Twenty-two communications facilities are located within the province. They are basically in areas of strategic importance, near airfields, or around major population centers. Fifteen of the facilities are HF receiving and/or transmitting stations. The remaining nine consist of a variety of types including DF, MF, and TV broadcast stations.

**Radio Relay Stations**

71. The first radio relay stations in China were identified in Kansu in 1972,\* (Figure III-E-1). Ten radio relay stations have been identified within the province. Nine of these extend on a line from west of Lan-chou in a southeasterly direction through Tien-shui toward Pao-shi, in Shensi Province.

72. The tenth station, at Lung-te (item 59, Table III-E-1), is the only facility which does not appear to exhibit line-of-sight contact with any of the other nine sites. No electronics equipment has been observed at any of the stations, but all appear to be bunkered and externally complete.

25X1

25X1

25X1

**TOP SECRET RUFF**

**Page Denied**

TOP SECRET RUFF

25X1

25X1

Table III-E-1. Electronics-Related Facilities, Kansu Province (Items keyed to Figure III-E-3)

Item	Installation Name/BE/Coordinates	Electronics Equipment/Latest Photography	
<u>SPACE TRACKING FACILITIES</u>			
1	Lan-chou Space Trk Fac [redacted] 35-56-32N 104-10-32E	2 [redacted] parabolic dish antennas [redacted]	25X1 25X1
<u>RADAR FACILITIES</u>			
2	An-hsi AW Radar Fac [redacted] 40-32-30N 095-46-45E	None, [redacted]	25X1 25X1
3	Yu-men Afld AW Radar Fac [redacted] 40-18-00N 097-02-00E	1 cut parabolic radar, 1 dual-purpose radar [redacted]	25X1
4	Mo-wu AW Radar Fac [redacted] 40-49-00N 098-30-00E	1 MOON CONE [redacted]	25X1 25X1
5	Hongor Dzag Poss AW Radar Fac [redacted] 42-01-35N 098-20-10E	2 poss radar, [redacted]	25X1 25X1
6	Lu-tsao-kou AW Radar Fac [redacted] 42-21-45N 097-05-33E	SPOON REST (Chinese variant) 5 horiz dipole, [redacted]	25X1
7	Shuang-cheng-tzu Afld AW Rdr Fac [redacted] 40-23-51N 099-47-23E	3 KNIFE REST, 1 height finder [redacted]	25X1 25X1
8	Shuang-cheng-tzu AW Rdr Fac [redacted] 40-57-//N 100-16-//E	None ever observed	25X1
9	Ha-la-su-huai Radar Fac [redacted] 40-58-48N 104-19-10E	1 FLAT FACE, [redacted]	25X1 25X1
10	Lu-tsao-ching AW Radar Fac North [redacted] 41-55-30N 099-54-45E	1 MOON series, [redacted]	25X1
11	Ho-ho-bulag AW Rdr Fac [redacted] 41-54-00N 101-03-00E	1 MOON CONE, 2 KNIFE REST, 1 SPOON REST, 2 dipole, [redacted]	25X1 25X1 25X1
12	Sha-tsao-chuan Radar Fac [redacted] 41-24-00N 102-52-00E	1 MOON series, 1 SPOON REST, [redacted]	25X1
13	Ching-shui Afld AW Rdr Fac [redacted] 39-35-10N 098-53-50E	2 CROSS LEGS [redacted]	25X1 25X1
14	A-la-shan-yu-chi AW Rdr Fac* [redacted] 39-05-56N 101-52-09E	2 Suuji B, 1 Suuji D, 1 Yin-chuan A, 1 poss radar [redacted]	25X1
15	Wan-chia-po AW Radar Fac [redacted] 36-27-39N 103-37-39E	1 KNIFE REST [redacted]	25X1 25X1
16	Liu-tun-tzu AW Rdr Fac [redacted] 36-31-52N 103-40-46E	1 CROSS LEGS, 1 height finder [redacted]	25X1
17	Sha-liang-tung AW Rdr Fac [redacted] 36-32-25N 103-41-00E	1 BAR LOCK, 1 SPOON REST, 1 height finder, [redacted]	25X1
18	Ta-la-chih AW Rdr Fac [redacted] 36-36-50N 104-56-50E	1 BAR LOCK, 1 ROCK CAKE/STONE CAKE, 1 KNIFE REST, [redacted]	25X1
19	Ying-pan-shui Rdr Site [redacted] 37-32-13N 104-25-21E	1 poss MOON series, [redacted]	25X1 25X1
20	Cha-tzu-kou AW Radar Fac [redacted] 38-07-47N 102-43-02E	1 CROSS LEGS, 1 ROCK CAKE/ STONE CAKE [redacted]	25X1

25X1

TOP SECRET RUFF

25X1

Table III-E-1. (Continued)

Item	Installation Name/BE/Coordinates	Electronics Equipment/Latest Photography	
21	I-ha-pa-ho AW Rdr Fac [redacted] 39-15-58N 102-01-57E	1 MOON CONE [redacted]	25X1
22	Lang-mu-ssu AW Radar Fac [redacted] 33-58-20N 102-06-40E	2 poss radar [redacted]	25X1
23	Wu-tu Radar Fac [redacted] 33-28-50N 105-09-30E	1 CROSS LEGS, [redacted]	25X1
24	Min-hsien AW Radar Fac [redacted] 34-41-00N 104-11-50E	1 CROSS LEGS, 1 height finder, [redacted]	25X1
25	Lin-tao AW Radar Fac [redacted] 35-22-30N 103-59-10E	1 CROSS LEGS [redacted]	25X1
26	Yang-chai AW Radar Fac [redacted] 35-44-00N 103-59-05E	1 BAR LOCK, 1 CROSS LEGS, 1 ODD LOT, [redacted]	25X1
27	Hua-chia-ling AW Radar Fac [redacted] 35-22-30N 105-01-00E	1 CROSS LEGS, 1 height finder, [redacted]	25X1
28	Hsi-feng-chen AW Radar Site [redacted] 35-44-19N 107-38-49E	1 MOON series, [redacted]	25X1 25X1
29	Tien-shui-Prob AW Radar Fac [redacted] 34-36-20N 105-38-50E	1 prob radar [redacted]	25X1 25X1
30	An-hsi AW Radar Fac [redacted] 40-32-30N 095-46-45E	1 radar, [redacted]	25X1 25X1

COMMUNICATIONS FACILITIES

31	Chang-veh Afld HF Commo Fac [redacted] 38-48-40N 160-41-40E	1 CROSS LEGS, 1 stick mast [redacted]	25X1
32	Ching-shui Electronics Fac [redacted] 39-35-17N 098-51-18E	12 dipole, 2 vee, [redacted]	25X1
33	Chiu-chuan Thick Eight Fac [redacted] 39-46-00N 098-39-35E	Eight caged dipoles [redacted]	25X1
34	Shuang-cheng-tzu MTC Rangehead XMTR [redacted] 41-09-15N 100-18-11E	12 rhombic antennas, 10 horizontal dipoles [redacted]	25X1
35	Shuang-cheng-tzu Radcom XMTR [redacted] 40-25-37N 099-46-12E	1 horizontal dipole in day-night pair 4 quadrant antennas, [redacted]	25X1
36	Shuang-cheng-tzu MTC Rangehead Receiver [redacted] 40-55-06N 100-08-30E	3 day-night rhombics, 3 dipole antennas [redacted]	25X1
37	Shuang-cheng-tzu Radcom Receiver [redacted] 40-25-41N 099-44-16E	4 horizontal dipoles, [redacted]	25X1
38	Tien-tsung-ta-wan HF Commo Fac [redacted] 40-57-45N 100-11-00E	1 rhombic, 1 horizontal dipole, [redacted]	25X1
39	Lan-chou TV Broadcast Station [redacted] 36-02-40N 103-48-40E	1 TV tower, [redacted]	25X1 25X1
40	Lan-chou Radcom & AM XMTR No 1 [redacted] 36-04-35N 103-50-49E	Horizontal broadcast array [redacted]	25X1
41	Lan-chou Radcom Sta No 1 [redacted] 36-04-43N 103-51-06E	1 rhombic, 2 day-night horizontal dipole, 1 day-night rhombic, 2 vee, 8 horizontal dipole [redacted]	25X1 25X1
42	Lan-chou Radcom Sta No 2 [redacted] 36-03-21N 103-53-58E	4 rhombic, 6 horizontal dipole, 2 vee, [redacted]	25X1

25X1  
25X1  
25X1

Table III-E-1. (Continued)		
Item	Installation Name/BE/Coordinates	Electronic Equipment/Latest Photography
43	Lan-chou Radcom Sta No 3 36-02-43N 103-52-40E	None, [redacted]
44	Ha-chia-tsui Radcom XMTR 36-28-15N 103-36-40E	2 rhombics, 21 horizontal dipoles, 1 pos horizontal dipole, [redacted]
45	Kao-yai-tzu Radio Commo Sta 36-29-30N 104-30-50E	1 medium frequency vertical radiator, [redacted]
46	Wu-wei Radio Commo Fac 37-55-30N 102-39-10E	2 FISHBONE, 2 rhombic, 1 log periodic, 1 pos log periodic, 2 horizontal dipole, [redacted]
47	Wu-wei HF Commo Fac 37-58-25N 102-32-58E	2 horizontal dipole, [redacted]
48	Ho-tao Min Frequency Broadcast Sta 34-59-17N 102-53-00E	2 medium frequency vertical radiators, [redacted]
49	La-tzu-kou Prob Commo Fac 34-13-33N 102-52-35E	[redacted]
50	Kuan-pao U/I ACT (Pos Commo Fac) 34-59-30N 104-04-45E	[redacted]
51	Hsin-ying-chen U/I ACT (Pos Commo Inst Ucon) 35-40-15N 104-07-10E	[redacted]
52	Hoia-kuan-ying Radcom Fac 35-55-05N 104-10-50E	2 rhombics, 1 dipole, [redacted]
<b>RADIO RELAY STATIONS</b>		
53	Yu-pao-chen Radrel Sta/Bnk 34-56-05N 104-53-55E	[redacted]
54	Tien-shui Radrel Sta/Bnk 34-31-30N 105-42-40E	[redacted]
55	Tien-shui Radrel Sta/Bnk ENE 34-38-30N 105-54-15E	[redacted]
56	Pai-ho-chen Radrel Sta/Bnk 34-59-10N 105-19-30E	[redacted]
57	Man-ho-chen Radrel Sta/Bnk 35-20-23N 104-34-26E	[redacted]
58	Ma-chia-chi Radrel Tml 35-43-55N 104-13-50E	[redacted]
59	Lang-te Prob Radrel Sta 35-39-30N 106-13-00E	[redacted]
60	Lan-chou Radrel Sta/Bnk 36-02-11N 103-59-10E	[redacted]
61	Hai-ku Radrel Sta/Bnk 36-09-30N 103-22-30E	[redacted]
62	Shui-fou-ho Radrel Sta/Bunker 36-17-30N 103-47-30E	[redacted]
<b>OTHER RELATED TARGETS</b>		
63	Lan-chou Pos Commo Related Fac UCON 36-02-00N 103-49-30E	[redacted]

\*Operational test fac for newly developed Chinese radar\*  
 \*\*SCTMTC xmt  
 \*\*\*SCTMTC rcv

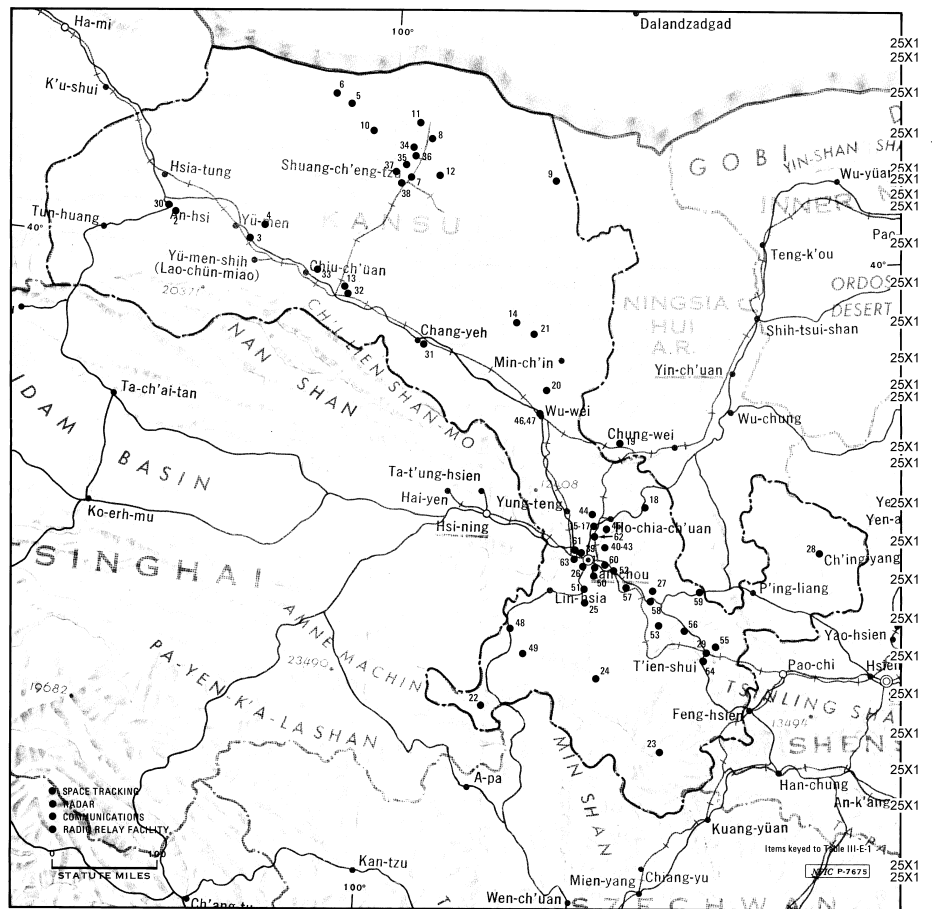


FIGURE III-E-3. ELECTRONICS-RELATED FACILITIES, KANSU PROVINCE

25X1  
25X1

INDUSTRIAL



TOP SECRET RUFF

25X1  
25X1  
25X1

## F. Industrial

73. There are 90 industry-related facilities in Kansu Province. One of these, Pai-yin Explosives Plant 805, is of major strategic importance. Eight facilities are considered of major importance. They are: Chiu-chuan Iron and Steel Plant, Lan-chou Petroleum Refinery, Lan-chou Aluminum Plant, Lan-chou Aluminum Plant Hsi-ku, Lan-chou Petrochemical Plant, Lan-chou Chemical Fertilizer Plant, Pai-yin Copper Smelter and Refinery Plant, and An-kou-yao Ammunition Plant.

74. The remaining 81 industry-related facilities can be classified into five main categories: chemical, mining, general fabrication and manufacturing, power, and general industry (Figure III-F-1 and Table III-F-1).

### Strategic Industry

75. Pai-yin Explosive Plant 805, 32 nm north-northeast of Lan-chou, was first observed in June 1963. The plant area, containing five main production lines, produces four explosives: RDX, TNT, PETN, and tetryl. The RDX and PETN production lines at Pai-yin are reported to be the only ones known in China. [REDACTED] A large explosive storage area, collocated, probably stores the products of the plant (Figure III-G-2).

25X1

### Major Industries

76. Chiu-chuan Iron & Steel Plant. The plant at Chiu-chuan, 10 nm southwest of Chiu-chuan, was first observed in March 1965. Construction of several small related industries has been observed since that time. It is the only large iron and steel plant in Kansu.

77. Lan-chou Petroleum Refinery. The Lan-chou Petroleum Refinery is 9.5 nm west/northwest of the center of Lan-chou. One of the largest refineries in China, this plant produces gasoline, kerosene, fuel oils, asphaltic materials, and coke.

78. Lan-chou Aluminum Plant, Lan-chou Aluminum Plant Hsi-ku. Both Lan-chou Aluminum Plants are in the western environs of Lan-chou. These are the only aluminum plants in Kansu Province.

79. Lan-chou Petrochemical Plant, Lan-chou Chemical Fertilizer Plant. The chemical plants at Lan-chou have been observed in operation since they were first seen on photography of September 1959. The plants produce a variety of products including nitrogenous fertilizers, ammonia, and nitric acid. The chemical fertilizer plant in this complex is one of the largest in China.

80. Pai-yin Copper Smelter and Refinery. Situated 35 nm north/northeast of Lan-chou, the complex has continued to increase in size. In addition, many associated collocated industries have been introduced. This industrial complex encompasses an area of nearly 10 square miles.

81. An-kou-yao Ammunition Plant. Part of the large manufacturing area at An-kou-yao, this facility is primarily engaged in the loading and testing of munitions. The area contains possible production facilities, loading facilities, and a direct-fire weapons test range. The installation was first observed on photography of July 1972.

### Other Industries

82. Of the remaining industries within the province, eight are chemical related, 11 are mining related, 32 are general fabrication and manufacturing related, 15 are power related, 14 are general industry related, and one is research related.

TOP SECRET RUFF

25X1  
25X1

TOP SECRET RIIEE

25X1  
25X1

Table III-F-1. Industry-Related Facilities Kansu Province (Items keyed to Figure III-F-1)

Item	Installation Name/BE/Coordinates	Item	Installation Name/BE/Coordinates
<b>STRATEGIC INDUSTRY</b>		22	Wa-hu-szu Mining Complex
1	Pai-yin Explosives Plant 805 36-30-52N 104-12-29E		39-19-40N 097-56-25E
		23	Shih-tsui-shan Mining Cplx 2 39-36-10N 106-51-30E
<b>MAJOR INDUSTRY</b>		24	Yung-chang Thermal Powerplant 38-22-50N 102-05-35E
2	Chiu-chuan Iron & Steel Plant 39-48-55N 098-17-23E		
3	Lan-chou Petroleum Refinery 36-06-57N 103-38-23E	25	Ping-kou Ore Proc Plt 38-45-00N 102-10-00E
4	Lan-chou Aluminum Plant 36-10-20N 103-35-30E	26	Ho-hsi-pao Ore Proc Plt 38-26-00N 102-01-55E
5	Lan-chou Aluminum Plant Hsi-ku 36-07-50N 103-35-52E	27	Ho-hsi-pao Nitrogen Fert Plant 38-22-00N 102-04-00E
6	Lan-chou Petrochemical Plant 36-07-49N 103-36-34E	28	Wu-wei Thermal Powerplant 37-55-10N 102-38-00E
7	Lan-chou Chemical Fertilizer Plant 36-07-21N 103-35-52E	29	Wu-wei TPP Yang chia-wa 37-39-38N 102-51-18E
8	Pai-yin Copper Smelter & Refinery Plant 36-33-10N 104-12-05E	30	Yung-teng Cement Plant 36-49-50N 103-13-00E
9	An-kou-yao Ammo Plant 35-15-15N 104-46-10E	31	Wu-sheng-I Indrl Explosive Plt 36-53-20N 103-10-30E
<b>OTHER INDUSTRY</b>		32	Yung-ten Nitro Ftlzr Plt 36-49-15N 103-13-45E
10	Hung-liu-yuan Prob Mining Acty 41-05-35N 095-14-30E	33	Yung-ten Ammo Plant 36-47-49N 103-13-29E
11	Yu-men Thermal Powerplant 40-12-34N 097-21-35E	34	Ching-yuan Ore Processing Industry 36-44-00N 104-45-00E
12	Tien-tung-ta-wan Thermal Powerplant 40-59-10N 100-14-25E	35	Ching-yuan Nitro Ftlzr Plant 36-40-00N 104-44-49E
13	Chang-yeh TPP South 38-55-09N 100-26-40E	36	Ta-la-chih PCC & Mining Camp 36-40-00N 105-02-15E
14	Chang-yeh TPP North 38-57-10N 100-25-40E	37	Pai-yin Ore Conc Plant 36-37-15N 104-15-44E
15	Chia-yu-kuan Thermal Powerplant 39-49-10N 098-15-00E	38	Pai-yin Light MFG Plant 36-35-00N 104-08-00E
16	Shan-tan Thermal Powerplant 38-46-28N 101-04-30E	39	Lan-chou Equipment Plant 36-06-46N 103-42-18E
17	Shan-tan Coke Plant 38-46-00N 101-06-50E	40	Lan-chou Assy/Fab Plant 36-06-00N 103-37-45E
18	Yu-men Oil Fields 39-46-50N 097-32-30E	41	Lan-chou Medium Metals Fab Plt NR2 36-05-33N 103-45-29E
19	Chiu-chuan Prob Nitro Ftlzr Plt 39-44-50N 098-31-30E	42	Lan-chou Thermal Powerplant Hsi-ku 36-07-49N 103-37-16E
20	Chiu-chuan Veh Assembly/Repair Fac 39-44-50N 098-29-35E	43	Lan-chou Transformer Station 36-02-40N 103-45-00E
21	Lung-wang-miao Mining Complex 39-36-50N 097-51-10E	44	Lan-chou Iron Plant 36-03-21N 103-46-17E

TOP SECRET RIIEE

25X1

25X1

Table III-F-1. (Continued)

Item	Installation Name/BE/Coordinates	Item	Installation Name/BE/Coordinates
45	Lin-hsia Nitro Ftr Plant 35-30-37N 103-05-44E	69	Ma-pao-chuan Prob L1 Fab Ind 34-34-40N 105-58-00E
46	Ma-chia-chi Cement Plant 35-41-15N 104-15-20E	70	Tien-shui Fabrication Ind SW 34-33-35N 106-40-50E
47	A-kan-chen Coal Mining Complex 35-54-00N 103-51-00E	71	Tien-shui Poss Light Fab Ind 34-34-20N 105-43-45E
48	Yu-chung U/I Processing Industry 35-48-00N 104-04-00E	72	Tien-shui Light Industry South 34-34-34N 105-43-30E
49	Lung-hsi Fabrication Industry 35-01-10N 104-36-30E	73	Tien-shui Light Industry Southeast 34-34-40N 104-45-05E
50	Lung-hai Nitro Ftr Plant 34-58-00N 104-39-00E	74	Tien-shui Heavy Fab Ind E 34-34-48N 105-46-50E
51	Lung-hai Fabrication Plant 34-58-00N 104-38-00E	75	Tien-shui Fabrication Industry SE 34-34-30N 105-46-10E
52	Lung-hsi U/I Assembly Plant 34-59-00N 104-39-30E	76	Tiao-chiao-chen Fab Ind 34-27-15N 105-43-10E
53	Lung-hai Prob Industry UCON 34-59-00N 104-34-49E	77	Ma-pao-chuan U/I Ind Ucon 34-34-20N 106-00-30E
54	Wen-fen-chen Processing Industry 34-57-15N 105-44-00E	78	Shu-chia-pa Ind Area 34-15-17N 105-54-29E
55	Chin-an Substation 34-48-40N 105-39-00E	79	Liu-shu-yuan L1 Fab Ind 34-14-10N 105-53-15E
56	Chin-an Fabrication Complex N 34-53-45N 105-38-30E	80	Chiang-kou-chuan L1 Ind 33-52-54N 106-11-56N
57	Chin-an Fabrication Complex S 34-49-10N 105-39-30E	81	Lung-shui Nitro Plant 33-25-00N 104-52-20E
58	Yue-chuan Prob Explosives Fab Ind 35-51-50N 104-00-35E	82	An-kou-yao Mining Complex 35-16-00N 106-48-00E
59	Pan-an-chen Thermal Powerplant 34-45-15N 105-06-00E	83	An-kou-yao TPP 35-13-40N 106-47-30E
60	Kan-ku Nitro Ftr Plant 34-45-50N 105-39-30E	84	Ping-hang Explosives Processing Area 35-31-15N 106-37-15E
61	Pan-an-chen Fertilizer Plant 34-45-25N 105-41-50E	85	Ping-hang Prob Nitrogen Fert Pit 35-30-40N 106-44-00E
62	Wu-shan Heavy Fabrication Plant 34-44-00N 104-53-40E	86	Ping-liang Cement Plant 35-32-40N 106-37-40E
63	Wu-shan Prob Mining Activity 34-44-50N 104-49-00E	87	Lien-hua-cheng Dam & HPP Lu-chia Hsia 35-56-00N 103-20-30E
64	Wu-shan Ind Ucon 34-44-00N 103-26-00E	88	Feng-tai-pao Prob Dam Ucon 35-15-00N 103-26-00E
65	Kan-ku Light Fabrication Industry 34-46-50N 105-19-10E	89	Hsia-ho Research Institute 35-18-00N 102-30-00E
66	Wu-to-li Fabrication Industry 34-34-48N 105-41-15E	90	Ting-yuen-chen Const Activity 35-58-40N 103-58-26E
67	Tien-shui Manufacturing Complex 34-35-15N 105-44-00E		
	Ma-pao-chuan Fab Ind 34-34-24N 105-58-50E		

\*Most of the facilities have been observed on recent photographs; therefore no mission reference is included.

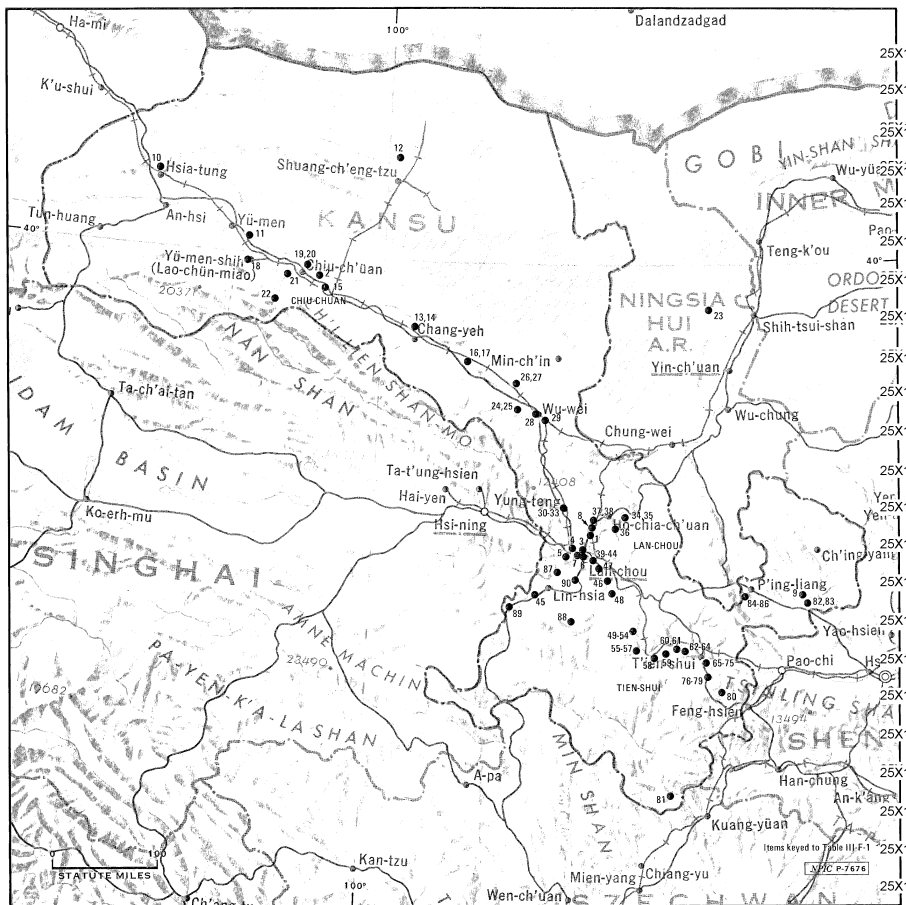


FIGURE III-F-1. INDUSTRY-RELATED FACILITIES, KANSU PROVINCE

STORAGE

~~TOP SECRET RIIF~~25X1  
25X1  
25X1

### G. Storage

83. There are 49 storage-related facilities in Kansu Province. They can be placed into three categories: POL storage, explosives storage, and general storage. Of the 27 POL-related storage facilities, only those at Yu-men, Lan-chou, Wu-wei, Yung-teng, and Shih-tung-ssu can be considered regional storage facilities. The remainder of the facilities serve local requirements (Figure III-G-3 and Table III-G-1).

84. Two of the four explosives-related facilities are of regional importance. Both the facilities at Shih-tung-ssu (Figure III-G-1) and Ma-chia-chi are extensive enough to be identified as regional explosives storage.

85. The balance of the 18 storage facilities are classified as general in nature, since no observable or identifiable material can be directly associated.

25X1

~~TOP SECRET RIIF~~

25X1

25X1

TOP SECRET RUFG

Table III-G-1. Storage-Related Facilities, Kansu Province (Items keyed to Figure III-G-3)

Item	Installation Name/BE/Coordinates	Item	Installation Name/BE/Coordinates
<b>POL</b>			
1	Hung-liu-yuan Pet Prod Stor 1 [redacted] 41-05-30N 095-28-50E	4	Yu-men Oil Fields [redacted] 39-46-50N 097-32-30E
2	Hung-liu-yuan POL Stor 2 [redacted] 41-06-22N 095-29-57E	5	Chiu-chuan Pet Prod Storage S [redacted] 39-38-32N 098-27-29E
3	Chang-yeh POL Storage [redacted] 38-58-32N 100-30-38E	6	Ching-shiu POL Transfer Spur [redacted] 39-27-35N 098-40-05E
		7	Shan-tan POL Stor Area PUG [redacted] 38-45-21N 101-01-56E

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET RUFG

[illegible]

**Page Denied**

Next 1 Page(s) In Document Denied



TRANSPORTATION

TOP SECRET RUFF

25X1  
25X1

# I. Transportation

90. Lan-chou is the crossroad of road and rail networks leading from eastern China to the western provinces.

91. Two major rail lines enter Kansu from the east, one from Shensi Province and the other from Ningsia-hui Autonomous Region. The only rail line serving the western provinces of China, the Lan-chou/Wu-lu-mu-chi rail line, extends westward from Lan-chou, paralleling the Kansu corridor to Wu-lu-mu-chi in the Sinkiang Autonomous Region. Important trunk lines lead to Hsining, in Tsinghai Province, in addition to Shuang-cheng-tzu and Ta-la-chi, in Kansu.

92. Major roads generally parallel the rail lines. Although somewhat limited by topography, other roadways radiate from Lan-chou into all neighboring provinces and regions.

93. Two major rivers are within Kansu, the Huang-ho, which originates in Tsinghai, and the Wei-ho, which originates in the mountains of southern Kansu. Shallows and rapids prohibit both from being used for major transportation purposes.

94. Nine facilities are directly associated with transportation in Kansu. They vary in size from large installations, such as Hung-lu-yuan Complex, a major break-of-bulk point on the Lan-chou/Wu-lu-mu-chi rail line, to those as small as Ching-shui POL transfer spur. The major transshipment break-of-bulk points in Kansu are at Hung-lu-yuan, Tung-huang, Lan-chou, and Tien-shui (Figure III-I-1 and Table III-I-1).

Table III-I-1. Transportation Facilities, Kansu Province (Items keyed to Figure III-I-1)

Item	Installation Name/BE/Coordinates
1	Hung-lu-yuan Complex 41-05-00N 095-28-00E
2	Hung-lu-yuan Railroad Repair Facility 41-05-50N 095-31-00E
3	Tung-huang MTR Transport Depot 40-06-30N 094-35-60E
4	Yamen-shih RR Sta Yards & Shops 39-48-35N 097-05-40E
5	Ching-shui R.R. Yard 39-21-19N 099-02-49E
6	Lung-wang-miao RR Transfer Yd 39-45-45N 098-15-40E
7	Ching-shui POL Transfer Spur 39-27-35N 098-40-50E
8	Lan-chou RR Yard West 36-04-15N 103-44-51E
9	Tian-shui Transshipment & Storage Fac 34-33-20N 105-58-40E

NPIC Project 120601NC

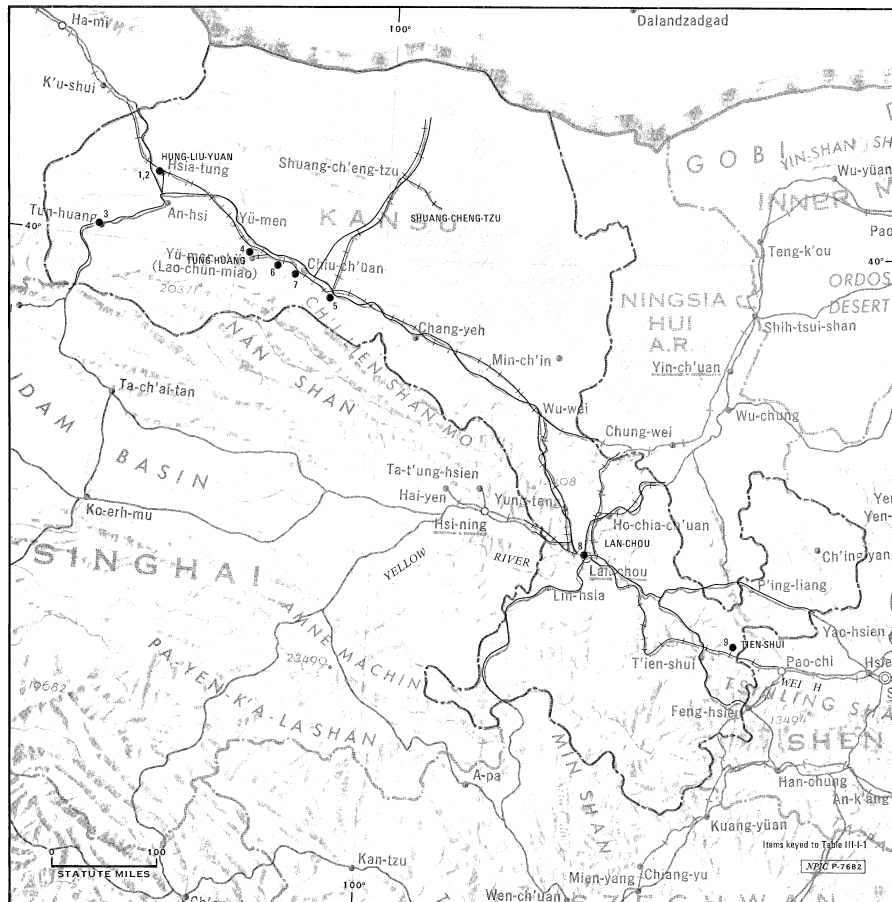


FIGURE III-I-1. TRANSPORTATION FACILITIES, KANSU PROVINCE

TOP SECRET RUFF

25X1

25X1

1.

1

[

[

1

1

l

L

1

1

1

—

1

—

—

۲۰

—

—

FL

—

—

—

—

**TOP SECRET**

25X1